INTERNATIONAL SEARCH REPORT

Interr Application No
PCT/BR2004/000240

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 F04B35/04 F04E F04B49/06 According to International Patent Classification (IPC) or to both national classification and IPC Minimum documentation searched (classification system followed by classification symbols) IPC 7 F04B Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the international search (name of data base and, where practical, search terms used) EPO-Internal, PAJ C. DOCUMENTS CONSIDERED TO BE RELEVANT Category 9 Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No. X US 6 176 683 B1 (YANG SOON-BAE) 1-5,7-9, 23 January 2001 (2001-01-23) 11-13, 15, 16, 18-31 Y abstract 6,10,14, column 2, lines 7-38 column 3, lines 11-33 column 4, line 37 - column 5, line 16 column 6, lines 1-14 claim 3 Y US 2003/161734 A1 (KIM TAE-DUK) 6,10,14, 28 August 2003 (2003-08-28) abstract; figure 3 paragraph '0003! paragraph '0008! paragraphs '0014!, '0015! X Further documents are listed in the continuation of box C. Patent family members are listed in annex. Special categories of cited documents: *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the *A* document defining the general state of the art which is not considered to be of particular relevance invention "E" earlier document but published on or after the international "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such docu-"O" document referring to an oral disclosure, use, exhibition or other means ments, such combination being obvious to a person skilled *P* document published prior to the international filing date but later than the priority date claimed *&* document member of the same patent family Date of the actual completion of the international search Date of mailing of the international search report 18 April 2005 22/04/2005 Name and malling address of the ISA Authorized officer European Patent Office, P.B. 5818 Patentlaan 2 NL – 2280 HV Rijswijk Tel. (+31–70) 340–2040, Tx. 31 651 epo nl, Fax: (+31–70) 340–3016 Richmond, R

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